

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 03/09/2017 Revision date: 04/04/2017 Supersedes: 03/20/2017 Version: 2.3

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Trade name	: Formula 74
Product code	: 1203
1.2. Recommended use and restriction	
Recommended use	: Heavy-duty detergent
1.3. Supplier	
Synthetic Labs 24 Victory Lane Dracut, MA 01826 - United States T 800.255.4050 - F 978.957.5122 www.syntecpro.com	
1.4. Emergency telephone number	
Emergency number	: Infotrac 24 Hour Medical Emergency Number: 1-800-535-5053
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or I	nixture
GHS US classification	
Skin corrosion/irritation Category 1A Serious eye damage/eye irritation Category 1	Causes severe skin burns and eye damage Causes serious eye damage
2.2. GHS Label elements, including pre	cautionary statements
GHS US labeling	
Hazard pictograms (GHS US)	
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	: Causes severe skin burns and eye damage Causes serious eye damage
Precautionary statements (GHS US)	 Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands, forearms and face thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
2.3. Other hazards which do not result	in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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SECT	FION 3: Composition/Information on ingredients
3.1.	Substances

Not applicable 3.2. Mixtures

J.Z. WIXLUIES			
Name	Product identifier	%	GHS US classification
Phosphoric Acid	(CAS-No.) 7664-38-2	30 – 40	Met. Corr. 1, H290 Skin Corr. 1, H314 Eye Dam. 1, H318
Citric Acid	(CAS-No.) 77-92-9	5 – 10	Skin Corr. 1, H314 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available. Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do not induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	s (acute and delayed)
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Immediate medical attention and spe	cial treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguishi	ng media
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Specific hazards arising from the che	emical
Hazardous decomposition products in case of fire	: Toxic fumes may be released.
5.3. Special protective equipment and pre	ecautions for fire-fighters
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.
6.1.2. For emergency responders	
Protective equipment	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for containment	nt and cleaning up
Methods for cleaning up	: Take up liquid spill into absorbent material.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
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SECT	FION 7: Handling and storage	
7.1.	Precautions for safe handling	
Preca	autions for safe handling	: Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
Hygie	ene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2.	Conditions for safe storage, includ	ng any incompatibilities

Storage conditions

: Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

Control parameters 8.1.

Formula 74	
No additional information available	
Phosphoric Acid (7664-38-2)	
USA - ACGIH - Occupational Exposure	Limits
Local name	Phosphoric acid
ACGIH TWA (mg/m³)	1 mg/m ³
ACGIH STEL (mg/m ³)	3 mg/m ³
Remark (ACGIH)	URT, eye, & skin irr
USA - OSHA - Occupational Exposure	Limits
Local name	Phosphoric acid
OSHA PEL (TWA) (mg/m ³)	1 mg/m ³
Citric Acid (77-92-9)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls

Environmental exposure controls

: Ensure good ventilation of the work station. : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties		
9.1. Information on basic p	hysical and chemical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Color	: clear	
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	,,
Odor	: odorless
Odor threshold	: No data available
рН	: 1
Melting point	: Not applicable
Freezing point	: 32 °F
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.12 g/m ³
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow	 No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
The product is non-reactive under normal condition	ns of use, storage and transport.
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal con-	ditions of use.
10.4. Conditions to avoid	
None under recommended storage and handling	conditions (see section 7).
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition products	
Under normal conditions of storage and use, haza	ardous decomposition products should not be produced.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Citric Acid (77-92-9)	
· · · · ·	A 0000 mention has the weight (OEOD 400) Assiste Desmail Testistic 04 h. Det Male (formale
LD50 dermal rat	> 2000 mg/kg body weight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
Skin corrosion/irritation	: Causes severe skin burns.
	pH: 1

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Serious eye damage/irritation	: Causes serious eye damage. pH: 1
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
	Derma
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: Before neutralisation, the product may represent a danger to aquatic organisms.
Citric Acid (77-92-9)	
LC50 fish 1	440 – 760 mg/l (Equivalent or similar to OECD 203, 48 h, Leuciscus idus, Static system, Fresh water, Experimental value, Nominal concentration)
12.2. Persistence and degradability	

Phosphoric Acid (7664-38-2)		
Persistence and degradability Biodegradability: not applicable.		
Citric Acid (77-92-9)		
Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.	
Biochemical oxygen demand (BOD)	0.42 g O ₂ /g substance	
Chemical oxygen demand (COD)	0.728 g O ₂ /g substance	
ThOD	0.686 g O ₂ /g substance	
BOD (% of ThOD)	0.89 (20 day(s), Literature study)	

12.3. Bioaccumulative potential

Phosphoric Acid (7664-38-2)	
Bioaccumulative potential	No test data of component(s) available.
Citric Acid (77-92-9)	
BCF other aquatic organisms 1	3.2 l/kg (Calculated value)
Partition coefficient n-octanol/water (Log Pow)	-1.8 – -1.55 (Experimental value)
Bioaccumulative potential	Not bioaccumulative.

12.4. Mobility in soil

Phosphoric Acid (7664-38-2)	
Ecology - soil	Highly mobile in soil.
Citric Acid (77-92-9)	
Ecology - soil	No (test)data on mobility of the substance available.

12.5. Other adverse effects

No additional information available

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ECTION 13: Disposal considerations	
.1. Disposal methods Vaste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
	. Dispose of contents/container in accordance with incensed collector's sorting instructions.
ECTION 14: Transport information	
epartment of Transportation (DOT)	
accordance with DOT	
ransport document description	: UN1760 Corrosive liquids, n.o.s. (Phosphoric Acid), 8, II
IN-No.(DOT)	: UN1760
roper Shipping Name (DOT)	: Corrosive liquids, n.o.s.
Class (DOT)	Phosphoric Acid : 8 - Class 8 - Corrosive material 49 CFR 173.136
acking group (DOT)	: II - Medium Danger
lazard labels (DOT)	: 8 - Corrosive
	CORROSIVE
OT Packaging Non Bulk (49 CFR 173.xxx)	: 202
OT Packaging Bulk (49 CFR 173.xxx)	: 242
OOT Symbols	: G - Identifies PSN requiring a technical name
OT Special Provisions (49 CFR 172.102)	: B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized.
OT Packaging Exceptions (49 CFR 173.xxx)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T11 - 6 178.274(d)(2) Normal
OT Quantity Limitations Passenger aircraft/rail	
49 CFR 173.27)	
OT Quantity Limitations Cargo aircraft only (49 FR 175.75)	
OT Vessel Stowage Location	: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" or passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.
OT Vessel Stowage Other	: 40 - Stow "clear of living quarters"
mergency Response Guide (ERG) Number Other information	154No supplementary information available.
ransportation of Dangerous Goods	
lot applicable	
lot applicable ransport by sea	
	: UN 1760 CORROSIVE LIQUID, N.O.S., 8, II

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UN-No. (IMDG)	: 1760
Proper Shipping Name (IMDG)	: CORROSIVE LIQUID, N.O.S.
Class (IMDG)	: 8 - Corrosive substances
Packing group (IMDG)	: II - substances presenting medium danger
Air transport	
Transport document description (IATA)	: UN 1760 Corrosive liquid, n.o.s., 8, II
UN-No. (IATA)	: 1760
Proper Shipping Name (IATA)	: Corrosive liquid, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: II - Medium Danger

15.1. US Federal regulations		
Phosphoric Acid (7664-38-2)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313		
CERCLA RQ	5000 lb	
Citric Acid (77-92-9)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
15.2. International regulations		
CANADA		
Phosphoric Acid (7664-38-2)		
Listed on the Canadian DSL (Domestic Substances List)		

Citric Acid (77-92-9) Listed on the Canadian DSL (Domestic Substances List) EU-Regulations No additional information available National regulations No additional information available 15.3. US State regulations

Component	State or local regulations
Phosphoric Acid(7664-38-2)	U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

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Revision date	: 04/04/2017
Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.